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Wool and Mohair

National Agricultural Statistics Service

United States Department of Agriculture

Washington, D.C.

Released March 29, 1994, by the Agricultural Statistics Board. Estimates refer to 1993.

1993 Wool Production Down 7 Percent

Shorn wool production in the United States during 1993 was 77.3 million pounds, down 7 percent from 1992. Sheep and lambs shorn totaled 9.93 million head, a decrease of 5 percent from 1992. The average price paid for wool sold in 1993 was $0.51 per pound for a total value of $39.0 million, down 35 percent from $60.1 million in 1992.

Wool: Production, Price, and Value, United States, 1991-93

Year	Sheep Shorn 1/	Weight per Fleece	Shorn Wool Production	Price per Pound 2/	Value
	1,000 Head	Pounds	1,000 Pounds	Dollars	1,000 Dollars
1991	11,009	7.97	87,740	0.55	47,178
1992	*10,497	7.89	*82,819	0.74	*60,070
1993	9,934	7.78	77,319	0.51	38,981

* Revised.
1/ Includes shearing at commercial feeding yards.
2/ Weighted by sales.

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Mohair production in the five major producing States (Arizona, Michigan, New Mexico, Oklahoma, and Texas) during 1993 was 14.8 million pounds, down 5 percent from 1992. Goats and kids clipped, at 2.15 million head, was down 5 percent from 1992. Average weight per head clipped was 6.9 pounds unchanged from a year earlier. Value of mohair production was $12.1 million, down 10 percent from 1992.

Mohair: Production, Price, and Value, 5-State Total, 1991-93

Year	Goats Clipped	Average Clip per Goat	Production	Price per Pound 1/	Value 2/
	1,000 Head	Pounds	1,000 Pounds	Dollars	1,000 Dollars
1991	2,250	7.3	16,328	1.28	20,812
1992	2,254	6.9	15,582	0.86	13,389
1993	2,145	6.9	14,836	0.82	12,056

Mohair: Production, Price, and Value by Selected States and 5-State Total, 1992-93

State	Goats Clipped		Average Clip per Goat		Production		Price per Pound 1/		Value 2/	
	1992	1993	1992	1993	1992	1993	1992	1993	1992	1993
	1,000 Head		Pounds		1,000 Pounds		Dollars		1,000 Dollars	
AZ	82	70	4.4	4.4	360	310	0.60	0.32	216	99
MI	11	8	8.6	9.3	95	74	0.77	0.94	73	70
NM	105	110	4.5	4.5	473	495	0.78	0.63	369	312
OK	56	57	8.1	8.2	454	467	0.83	0.81	377	378
TX	2,000	1,900	7.1	7.1	14,200	13,490	0.87	0.83	12,354	11,197
5 Sts	2,254	2,145	6.9	6.9	15,582	14,836	0.86	0.82	13,389	12,056

1/ Weighted by sales.
2/ Production multiplied by marketing year average price for individual States; US value is summation of States value.

Wool: Number of Sheep and Lambs Shorn, Weight per Fleece, and Production by State and United States, 1992-93

State	Sheep Shorn		Weight per Fleece		Production	
	1992	1993	1992	1993	1992	1993
	1,000 Head		Pounds		1,000 Pounds	
AL	*10.0	9.0	6.0	5.6	*60	50
AK	0.7	0.9	7.1	7.8	5	7
AZ	188.0	180.0	6.9	6.7	1,300	1,200
CA	880.0	800.0	7.7	7.6	6,780	6,044
CO	758.0	725.0	7.9	7.2	5,954	5,199
CT	7.0	7.5	7.6	7.5	53	56
ID	253.0	245.0	10.0	10.0	2,527	2,454
IL	116.0	99.0	7.0	6.9	810	681
IN	92.0	90.0	7.0	6.6	644	591
IA	390.0	396.0	6.4	6.2	2,491	2,443
KS	185.0	169.0	7.3	7.3	1,353	1,228
KY	24.0	23.0	7.3	6.7	174	155
LA	13.0	11.5	6.8	6.1	88	70
ME	12.0	14.5	7.6	7.6	91	110
MD	30.0	28.0	6.6	6.5	198	181
MA	11.5	11.5	7.5	7.5	86	86
MI	*83.0	74.0	*7.7	7.7	*640	569
MN	*225.0	210.0	7.0	7.1	*1,565	1,484
MO	106.0	99.0	6.6	7.1	703	700
MT	*606.0	574.0	9.7	9.7	*5,893	5,581
NE	139.0	121.0	7.2	7.5	998	902
NV	73.0	70.0	9.5	8.9	697	620
NH	8.5	7.0	7.4	7.7	63	54
NJ	10.4	11.4	6.7	7.0	70	80
NM	410.0	419.0	9.4	9.0	3,835	3,774
NY	61.0	61.0	7.1	6.9	431	419
NC	14.8	14.4	6.9	6.9	102	99
ND	185.0	160.0	9.2	9.4	1,700	1,500
OH	220.0	207.0	6.9	7.2	1,523	1,486
OK	92.0	77.0	6.7	7.0	620	540
OR	419.0	381.0	6.6	6.3	2,752	2,396
PA	106.0	101.0	7.0	7.0	742	708
SD	590.0	580.0	8.7	8.6	5,119	5,003
TN	8.1	10.9	6.8	6.4	55	70
TX	2,450.0	2,340.0	7.2	7.3	17,600	17,000
UT	440.0	405.0	9.9	9.7	4,377	3,930
VT	19.0	20.0	7.5	8.1	143	162
VA	94.0	76.0	6.2	6.2	580	470
WA	*60.0	62.0	*9.0	9.3	*540	575
WV	67.0	69.0	6.0	5.8	402	400
WI	88.0	73.0	7.5	7.4	660	540
WY	*900.0	860.0	9.0	8.7	*8,068	7,448
Oth Sts 1/	52.4	41.4	6.2	6.1	327	254
US	*10,497.4	9,934.0	7.89	7.78	*82,819	77,319

* Revised.
1/ AR, DE, FL, GA, HI, MS, RI, and SC.

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Wool: Price and Value by State and United States, 1992-93

State	Price per Pound 1/		Value 2/	
	1992	1993	1992	1993
	------ Dollars -----		---- 1,000 Dollars ---	
AL	0.33	0.32	*20	16
AK	1.20	0.95	6	7
AZ	0.56	0.41	728	492
CA	0.67	0.46	4,543	2,780
CO	0.74	0.50	4,406	2,600
CT	0.62	0.51	33	29
ID	0.68	0.49	1,718	1,202
IL	0.28	0.24	227	163
IN	0.26	0.23	167	136
IA	0.32	0.27	797	660
KS	0.52	0.40	704	491
KY	0.40	0.34	70	53
LA	0.33	0.29	29	20
ME	0.64	0.69	58	76
MD	0.44	0.39	87	71
MA	0.62	0.59	53	51
MI	0.36	0.34	*230	193
MN	0.34	0.28	*532	416
MO	0.39	0.28	274	196
MT	0.85	0.54	*5,009	3,014
NE	0.44	0.36	439	325
NV	0.74	0.51	516	316
NH	0.64	0.61	40	33
NJ	0.44	0.50	31	40
NM	0.91	0.57	3,490	2,151
NY	0.56	0.41	241	172
NC	0.42	0.45	43	45
ND	0.58	0.40	986	600
OH	0.34	0.31	518	461
OK	0.51	0.39	316	211
OR	0.48	0.36	1,321	863
PA	0.42	0.36	312	255
SD	0.72	0.51	3,686	2,552
TN	0.40	0.38	22	27
TX	0.96	0.65	16,896	11,050
UT	0.78	0.57	3,414	2,240
VT	0.60	0.81	86	131
VA	0.44	0.37	255	174
WA	0.59	0.47	*319	270
WV	0.40	0.35	161	140
WI	0.33	0.28	218	151
WY	0.86	0.54	*6,938	4,022
Oth Sts 3/	0.40	0.34	131	86
US	0.74	0.51	*60,070	38,981

* Revised.
1/ Weighted by sales.
2/ Production multiplied by marketing year average price for individual States; US value is summation of States value.
3/ AR, DE, FL, GA, HI, MS, RI, and SC.

Sheep and Lambs Shorn and Wool Produced
United States 1909-93

Weight per Fleece
United States
1909-93

Reliability of Wool and Mohair Production

Survey Procedures: A random sample of U. S. producers was surveyed to provide data for the number of sheep shorn and production estimates. Survey procedures ensured that all sheep and goat producers, regardless of size, had a chance to be included in the survey. Large producers were sampled more heavily than small operations. Data were collected from about 70,000 operators during the first half of January by mail, telephone, and face-to-face personal interviews and 86 percent of the reports were usable.

Estimation Procedures: These sheep shorn, wool, and mohair production estimates were prepared by the Agricultural Statistics Board after reviewing recommendations and analysis submitted by each State office. National and State survey data were reviewed for reasonableness with each other and with estimates from past years. Agricultural Stabilization and Conservation Service's (ASCS) record of pounds of wool and mohair from producers filing for incentive payments was used as check data.

Revision Policy: Revisions to previous estimates are made to improve the current estimate. Previous year estimates are subject to revision when current estimates are made. Inventory estimates will also be reviewed after data from the Department of Commerce's five-year Census of Agriculture are available. No revisions will be made after that date.

Reliability: Since all operations raising sheep and goats are not included in the sample for the inventory and production estimates, survey data are subject to sampling variability. Survey results for inventory, production, and stocks estimates are also subject to non-sampling errors such as omissions, duplications, and mistakes in reporting, recording, and processing the data. The effects of these errors cannot be measured directly. They are minimized through rigid quality controls in the data collection process and through a careful review of all reported data for consistency and reasonableness.

To assist users in evaluating the reliability of the estimates in this report, the **"Root Mean Square Error"** is shown for selected items in the table below. The "Root Mean Square Error" is a statistical measure based on past performance and is computed using the differences between first and latest estimates. The "Root Mean Square Error" for sheep shorn estimates over the past 8 years is 0.6 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 9.9 million head by more than 0.6 percent, or about 59,400 head. Chances are 9 out of 10 that the difference will not exceed 1.1 percent, or about 108,900 head (the 90 percent confidence level).

Also shown in the table is a 8-year record showing the range between the first estimate and the latest estimate. Using estimates for Sheep and Lambs Shorn as an example, changes between the first inventory estimate and the latest estimate during the past 8 years have averaged 50,800 head, ranging from 6,600 to 106,400 head. The inventory estimate of Sheep and Lambs Shorn has been below the latest estimate 5 times and above 3 times in the last 8 years.

Reliability of U.S. Sheep Shorn and Wool Production Estimates 1/

Item	Root Mean Square Error	90% Confidence Level	Difference Between First and Latest Estimates: Average	Smallest	Largest	Number of Years: First Above Latest	First Below Latest
	Percent		1,000 Head			Number	
Sheep Shorn	0.6	1.1	108.9	50.8	6.6	106.4	3	5
			1,000 Pounds				
Wool Prod	0.3	0.5	386.6	416.0	16.0	1,307.0	3	5

1/ Based on data from 1985 through 1992.

Terms and Definitions

Agricultural Statistics Board: A panel of agricultural Statisticians assembled to review agricultural survey indications and to set national and state estimates for inventory, production and prices for a commodity. The "Board" meets in Washington, D. C. and data are held under tight security until the report is released.

Census of Agriculture: A count, every 5 years, by the Bureau of Census, Department of Commerce, of agricultural inventories, production and related economic data. Data are published for States and counties.

Check Data: Information derived from marketings, inspections, or certified assessments and other sources that has some direct relation to a commodity and can be used, with varying degrees of confidence, to supplement survey data in the preparation or revision of estimates.

Estimate: An approximate measure of the actual quantity of an item, usually derived by calculation from sample data.

Payment, Incentive: A form of compensatory payment in which the support price is set at a level high enough to encourage the increase in production of a particular commodity to a desired level.

Revision: A change made by the Agricultural Statistics Board to an earlier published USDA estimate. Revisions are made as a result of more current information or additional information learned about the commodity since the original estimate was published.

The next "**Wool and Mohair**" report will be released in March 1995.

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